

FIG. 2

DOCUMENT ID	URL	TITLE	REFERENCED DOCUMENT	LINK IMPORTANCE
00001	http://www.fujitsu.co.jp/	FUJITSU HOME		1023
00002	http://www.kantei.go.jp/	OFFICIAL RESIDENCE OF PRIME MINISTER		2055
.				
.				
.				

DOCUMENT INFORMATION TABLE 41

DOCUMENT ID	URL SIMILARITY
00006	3
00138	2
.....	

REFERENCED DOCUMENT TABLE 42

FIG. 3

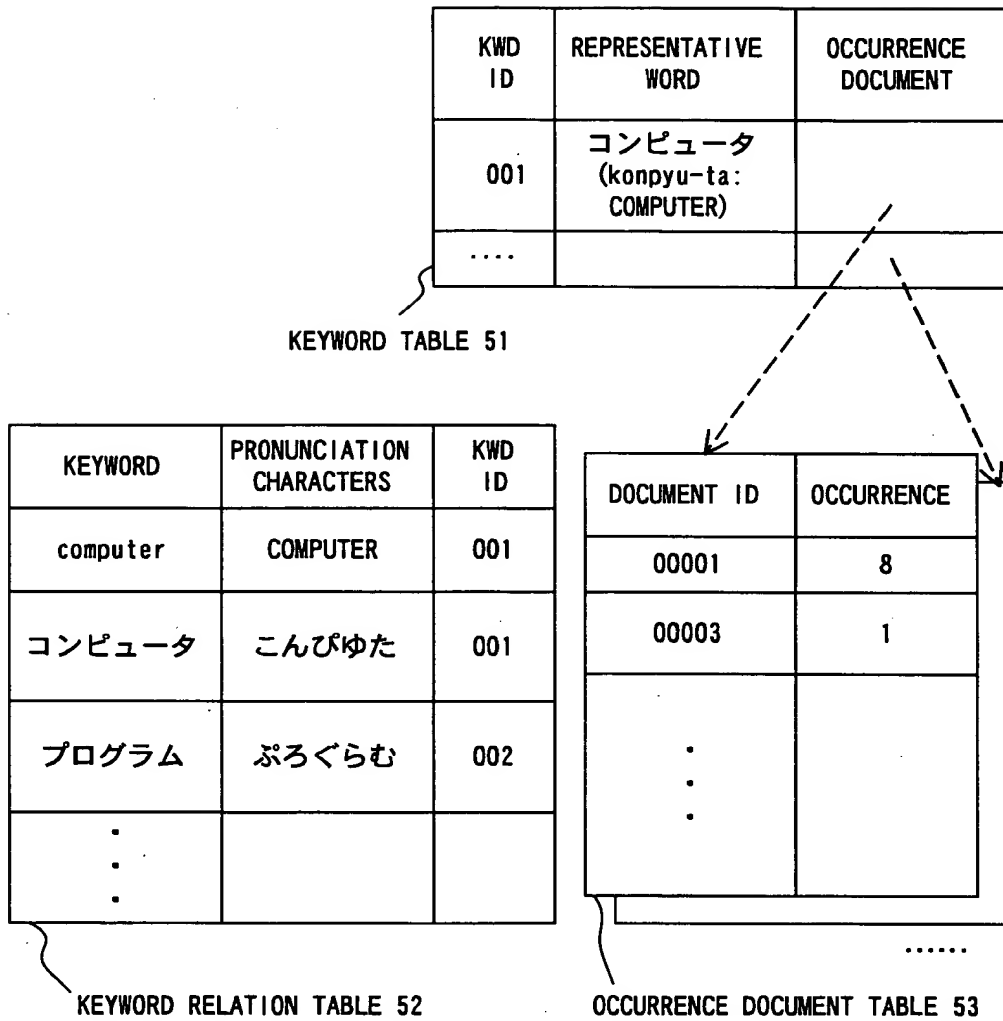


FIG. 4

FORMAT IN yyyyymmddHHMM

DATE AND TIME	KWD ID	DOCUMENT ID
200001121436	003	00123
200001121437	005	00054
.		
.		
.		

ACCESS LOG 71

F I G. 6

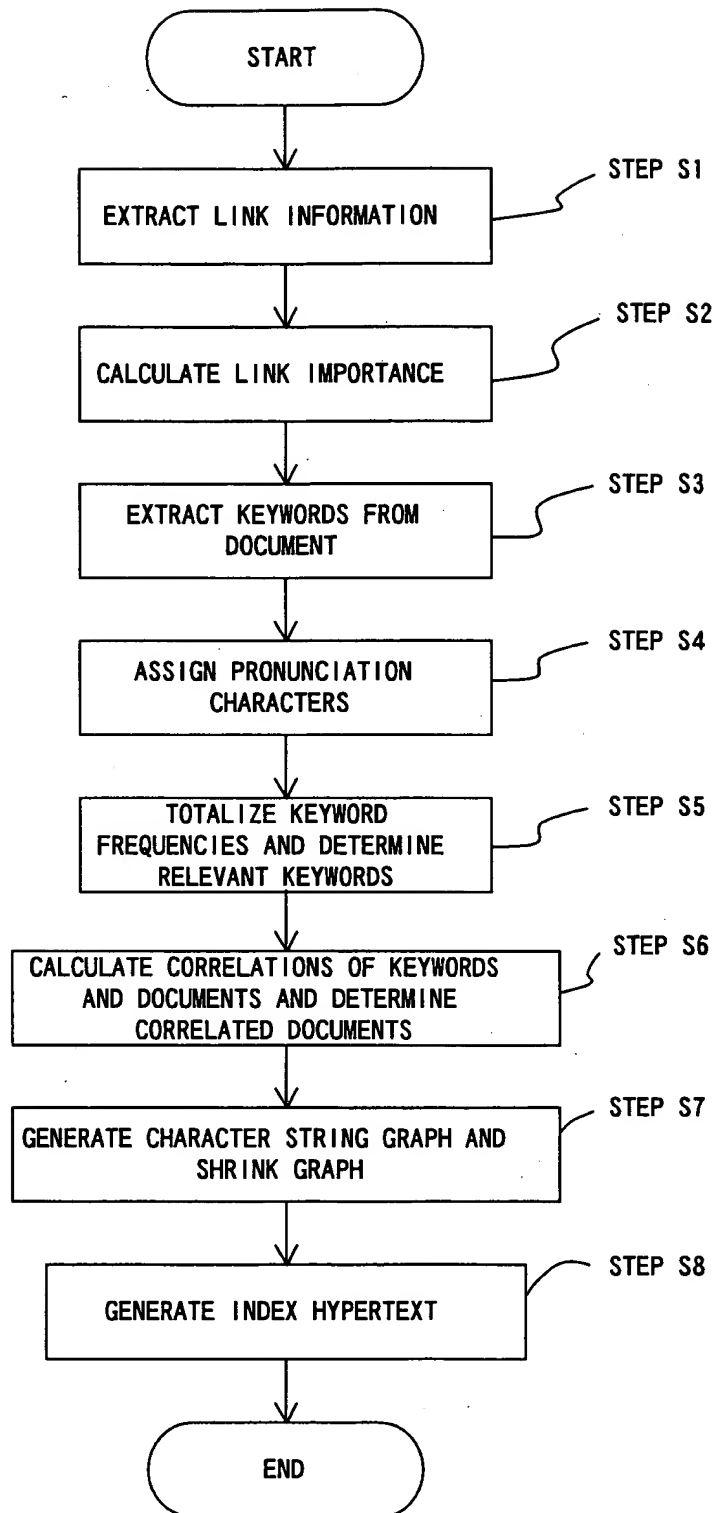
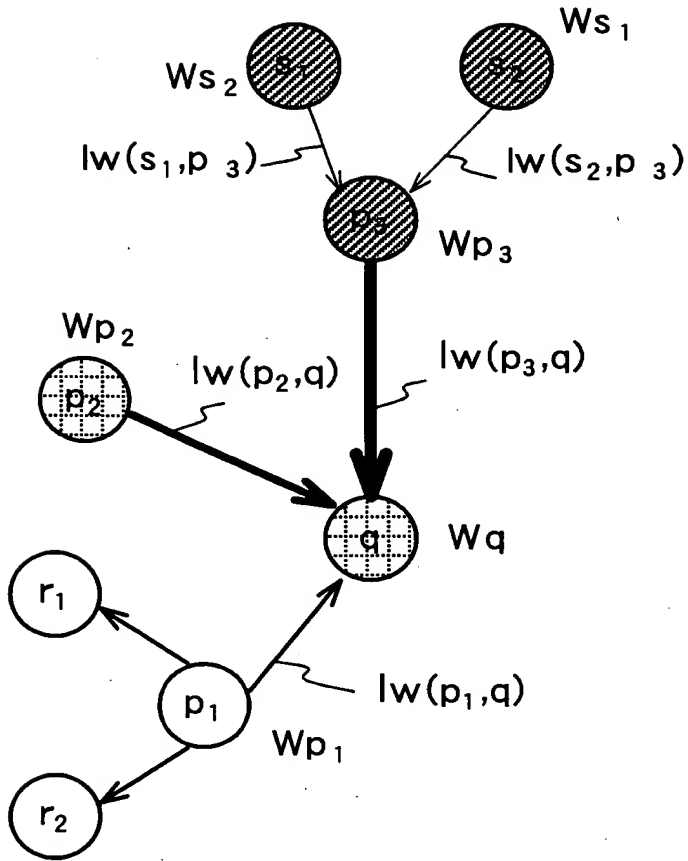


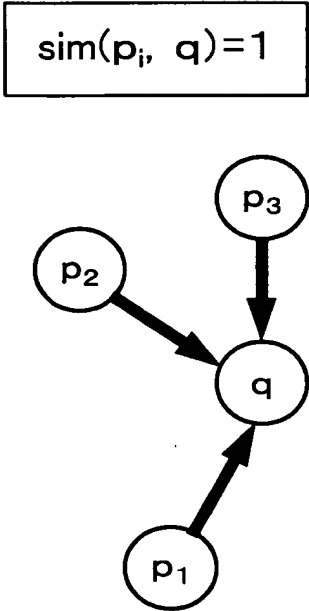
FIG. 7



CIRCLE(\odot) : WEB PAGE
 THICKNESS OF ARROW(\rightarrow) : LINK WEIGHT
 PATTERN OF CIRCLE(\odot) : URL SIMILARITY

FIG. 8

$$\text{sim}(\mathbf{p}_i, \mathbf{q}) = 1$$

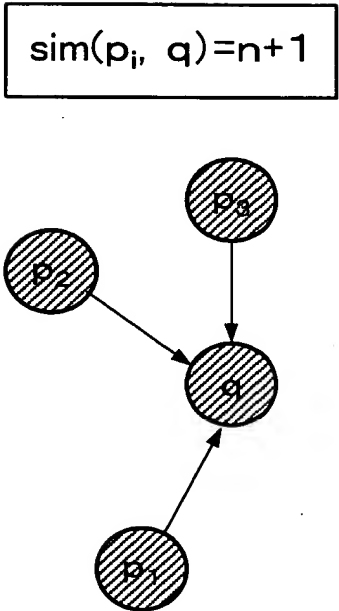


$$lw(p_i, q) = \frac{1}{sim(p_i, q)} = 1$$

$$w_q = c_q + w_{p1} + w_{p2} + w_{p3}$$

F I G. 9 A

$\text{sim}(p_i, q) = n + 1$



$$lw(p_i, q) = \frac{1}{sim(p_i, q)} = \frac{1}{n+1}$$

$$w_q = C_q + \frac{w_{p1} + w_{p2} + w_{p3}}{n+1}$$

FIG. 9B

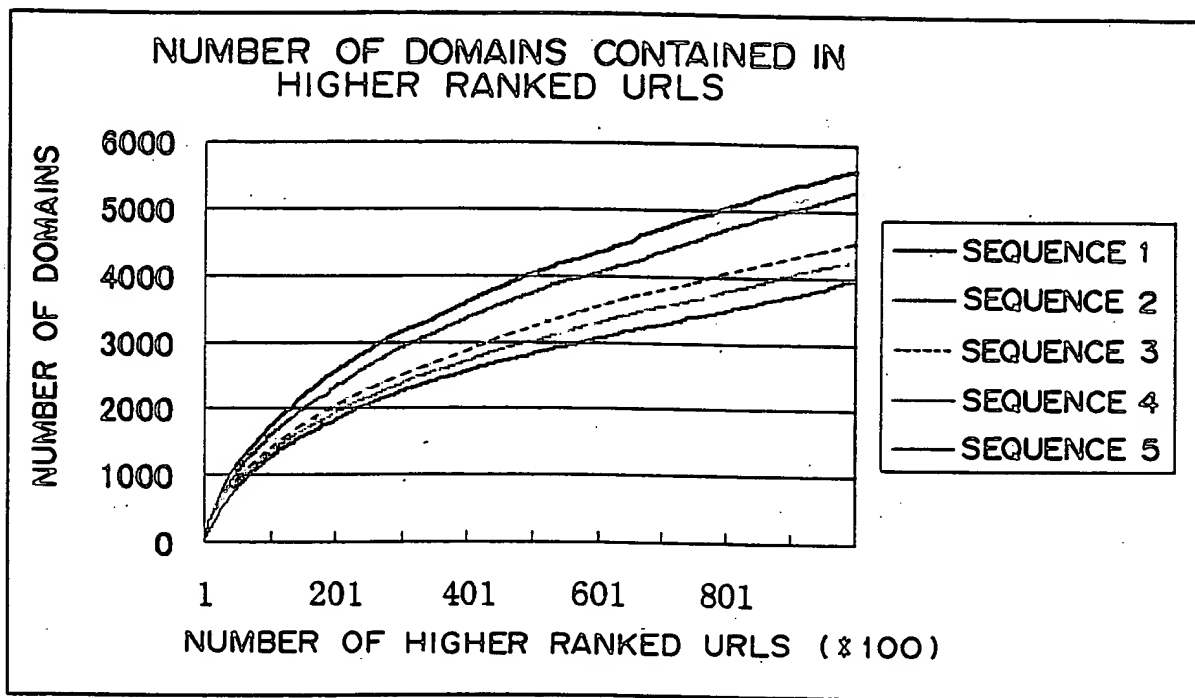


FIG. 10

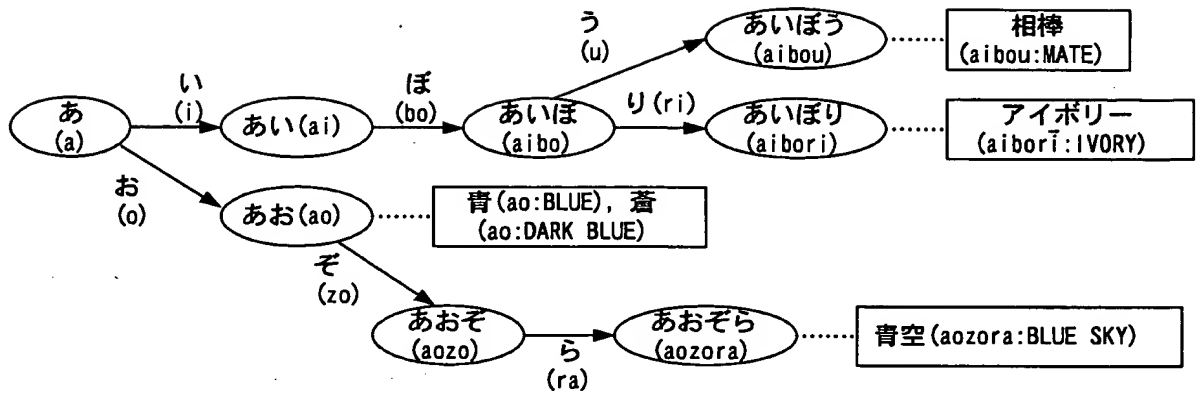


FIG. 11A

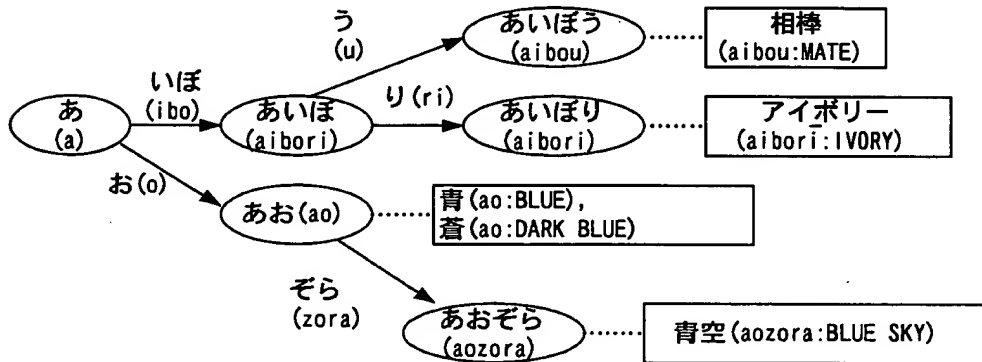


FIG. 11B

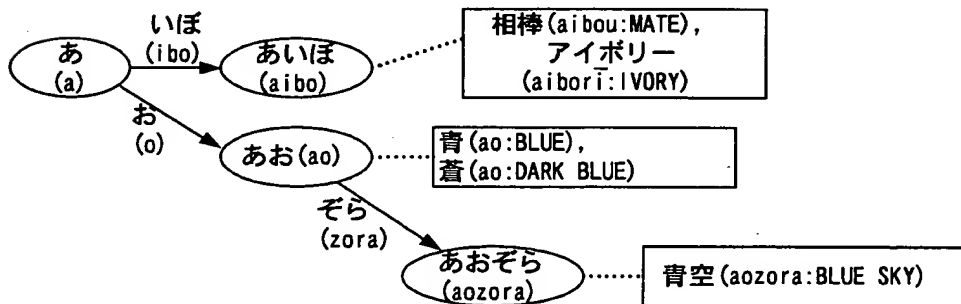


FIG. 11C

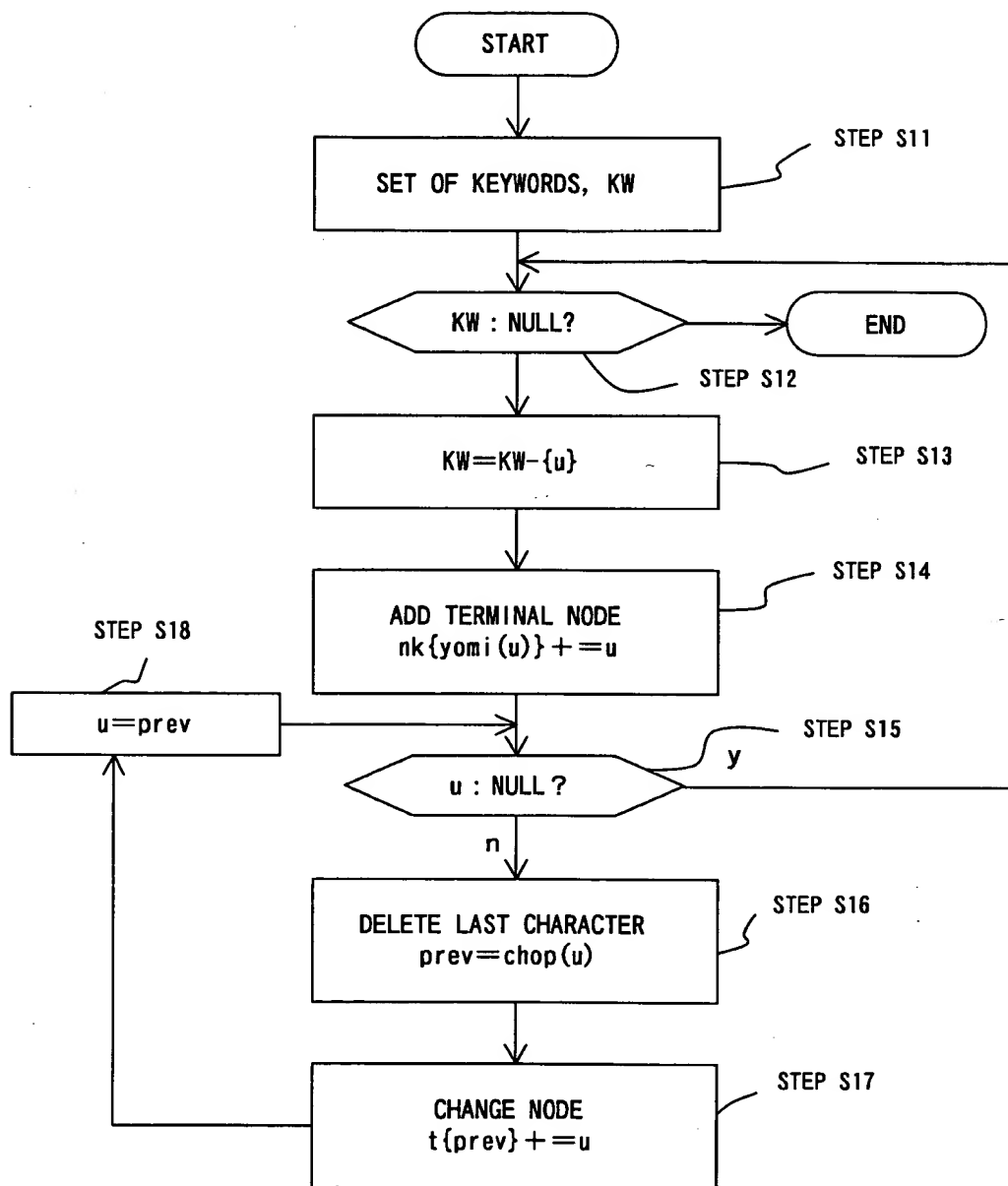


FIG. 12

```

proc init_kw_graph ()
{
    @KW:set of keywords;      # SET OF KEYWORDS
    yomi : YOMI/SPELL of keywords; # FUNCTION OR ARRAY THAT RETURNS PRONUNCIATION CHARACTERS OF KEYWORD
    foreach u in KW {
        nk{yomi{u}} .= u." "; # FOR EACH KEYWORD u
        for ( i=0; i<length(u); i++) { # DESIGNATE nk() OF NODE OF PRONUNCIATION CHARACTERS OF KEYWORD u
            local prev = chop(u); # REPEAT FOR LENGTH OF CHARACTER STRING OF KEYWORD u
            t{prev} .= u." "; # DELETE LAST CHARACTER OF KEYWORD u AND ADD TO PARENT NODE
            u = prev;
        }
    }
}

```

FIG. 13

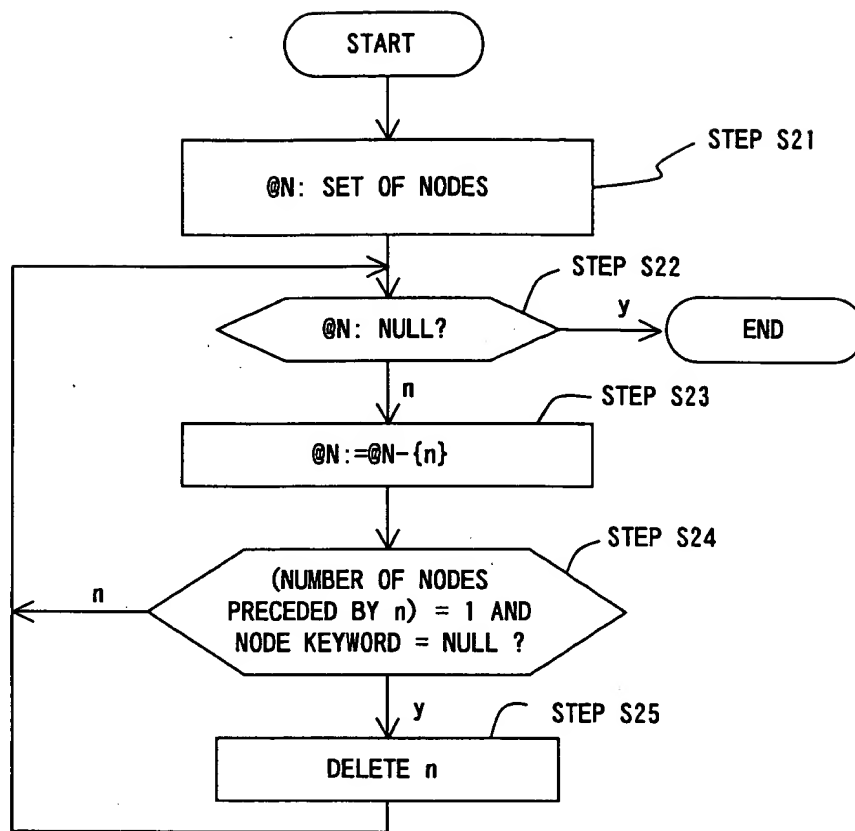


FIG. 14

```

proc shrink_middle ()
{
  @N : set of nodes
  foreach n (@N) {
    next=t{n};    # NEXT NODE LIST
    kw=nk{n};     # KEYWORD LIST
    if (length(next) ==1 && kw == "") {
      delete(n)   # DELETE NODE n
    }
  }
}

```

FIG. 15

```

graph TD
    START([START]) --> S31[STEP S31  
@N: LIST OF ALL NODES]
    S31 --> S32[STEP S32  
SORT @N IN THE ORDER OF NUMBER  
OF KEYWORDS]
    S32 --> S33[STEP S33  
i = 1]
    S33 --> S34{STEP S34  
i <= length(@N) ?}
    S34 -- n --> S35{STEP S35  
SHRUNK ?}
    S34 -- y --> S36[STEP S36  
n = i-TH NODE OF @N]
    S35 -- y --> S33
    S35 -- n --> END([END])
    S36 --> S37{STEP S37  
n: TERMINAL NODE ?}
    S37 -- n --> S41[STEP S41  
i = i+1]
    S37 -- y --> S38[STEP S38  
P = PARENT NODE OF n]
    S38 --> S39{STEP S39  
length(nk(p)) + length(nk(n)) < max ?}
    S39 -- n --> S41
    S39 -- y --> S40[STEP S40  
SHRINK n TO p]
    S40 --> S41
    S41 --> S34

```

FIG. 16

```

proc shrink_leaf ()
{
    @N: set of nodes;      # NODE LIST
    word_max = 2;          # word_max : IN THIS EXAMPLE, 2
    changed = true;        # WHEN KEYWORD IS TRANSFERRED, true
    @N = sort by _nk_length @N; # SORTING IN ASCENDING ORDER OF NUMBER OF KEYWORDS
    while (changed) {      # CONTINUING WHILE TRANSFER IS PERFORMED
        changed = false;
        foreach n in @N {
            if (is_leaf(n)) { # IN THE CASE OF TERMINAL NODE
                p = parent_node(n); # PARENT NODE
                if (length(nk{p}) + length(nk{n}) < word_max) {
                    nk{p} = nk{n} . "+" ; # TRANSFERRING KEYWORD
                    delete (n); # DELETE TERMINAL NODE
                    changed = true; # PROOF OF TRANSFER
                }
            }
        }
    }
}

```

FIG. 17

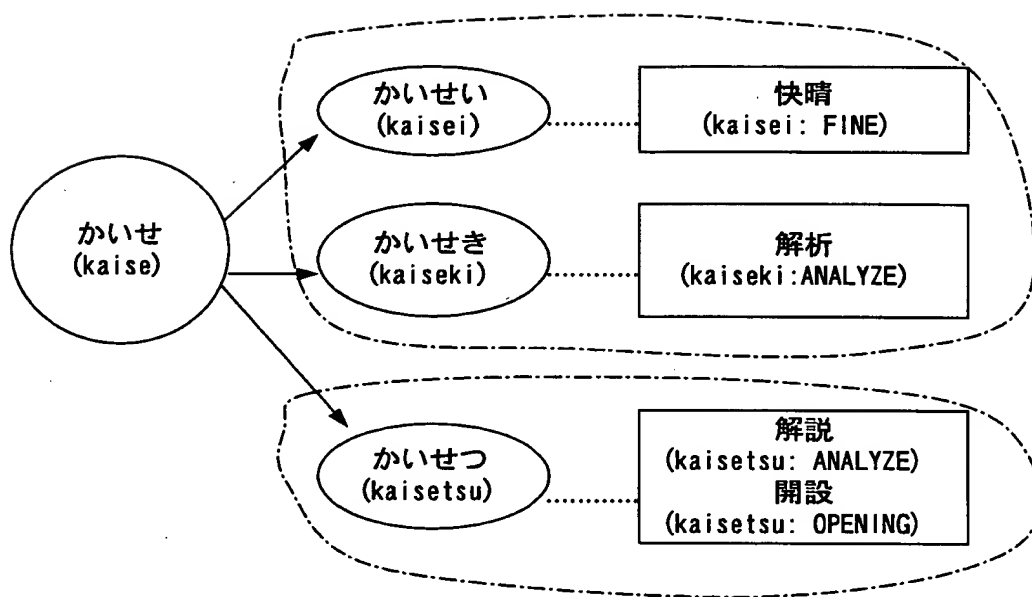


FIG. 18

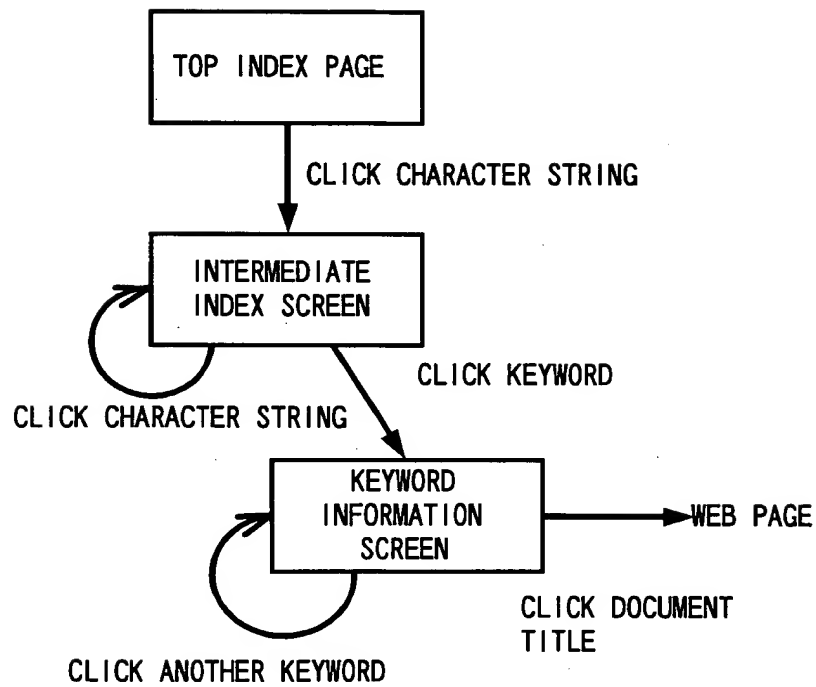


FIG. 19

INTRANET DOCUMENT SEARCH

あ (a)	い (i)	う (u)	え (e)	お (o)
か (ka)	き (ki)	く (ku)	け (ke)	こ (ko)
.....				
わ (wa)				
A	B	C	D	E
.....				
X	Y	Z		
0	1	2	...	9

CLICK AND SELECT
FIRST PRONUNCIATION
CHARACTER (SPELLING)

TOP INDEX SCREEN

FIG. 20

INTELLECTUAL 50-KANA CHARACTER INDEX OF INTRA-COMPANY PAGES									
あ (a)	い (i)	う (u)	え (e)	お (o)	が (ga)	ぎ (gi)	ぐ (gu)	げ (ge)	ご (go)
か (ka)	き (ki)	く (ku)	け (ke)	こ (ko)	さ (sa)	し (shi)	す (su)	せ (se)	そ (so)
た (ta)	ち (chi)	つ (tsu)	て (te)	と (to)	だ (da)	ぢ (ji)	づ (zu)	ぜ (ze)	ぞ (zo)
な (na)	に (ni)	ぬ (nu)	ね (ne)	の (no)		で (de)	ど (do)		
は (ha)	ひ (hi)	ふ (fu)	へ (he)	ほ (ho)	ば (ba)	び (bi)	ぶ (bu)	べ (be)	ぼ (bo)
ま (ma)	み (mi)	む (mu)	め (me)	も (mo)					ぱ (pa)
や (ya)	ゆ (yu)	よ (yo)							
ら (ra)	り (ri)	る (ru)	れ (re)	ろ (ro)					
わ (wa)									
A B C D E F G H I J K L M N O P Q R S T U V W X 1 2 3 4 5 6 7 8 9									
(NOTE) "-" LONG SOUND SHOULD BE REMOVED. SELECT "っ (tu)" AND "ゃ (ya)" FOR "っ (tu)" AND "ゃ (ya)".									
SEARCH FOR A KEYWORD INCLUDING					CLEAR				

FIG. 21

FIG. 22

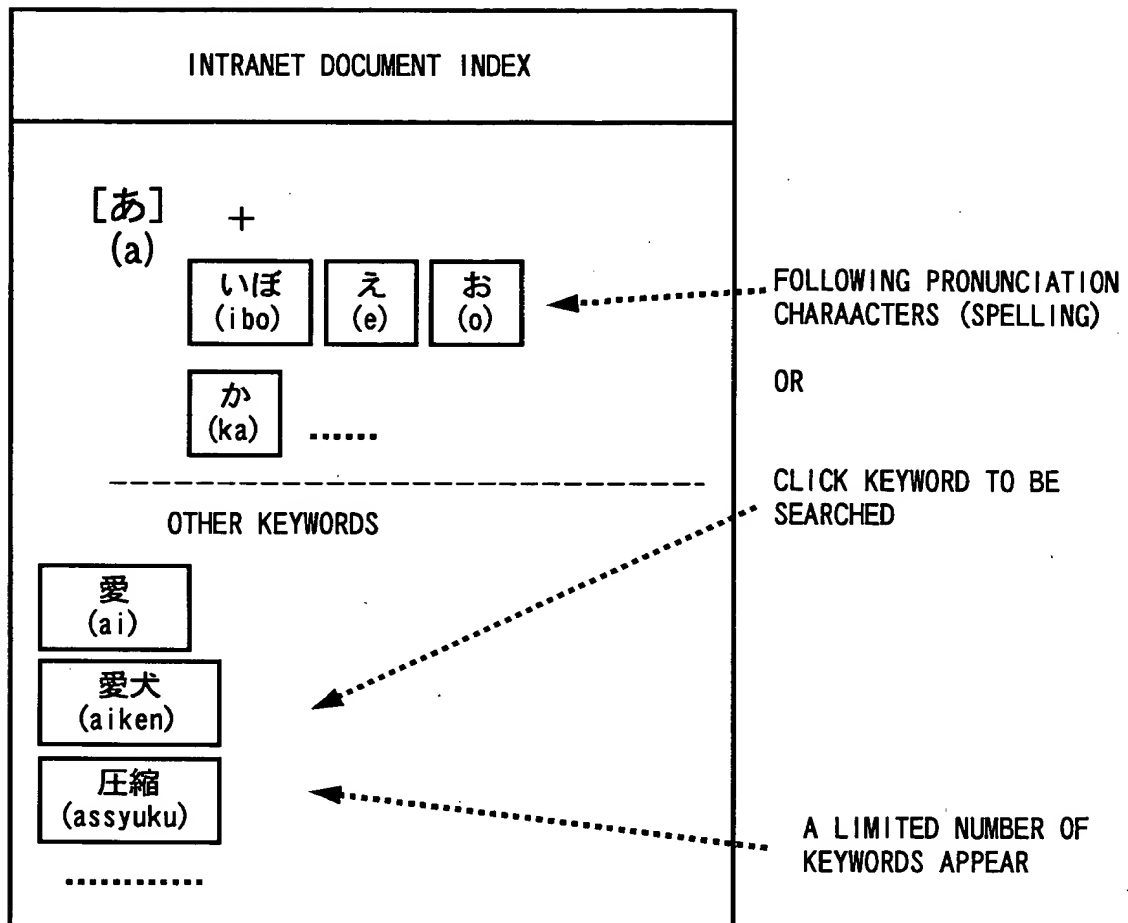


FIG. 22

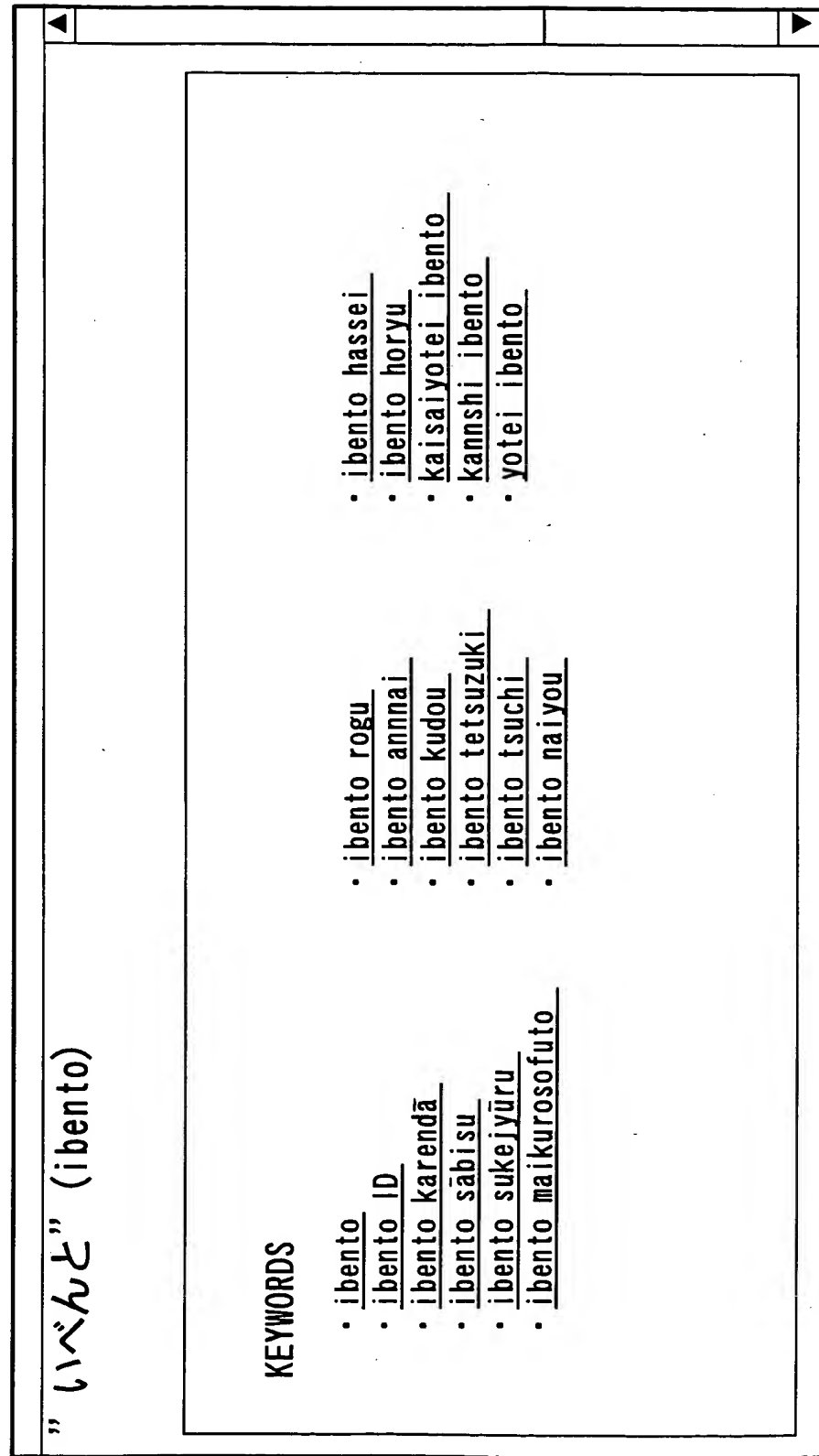


FIG. 24

REPRESENTATIVE WORD AND SYNONYM

ROUTE PATH

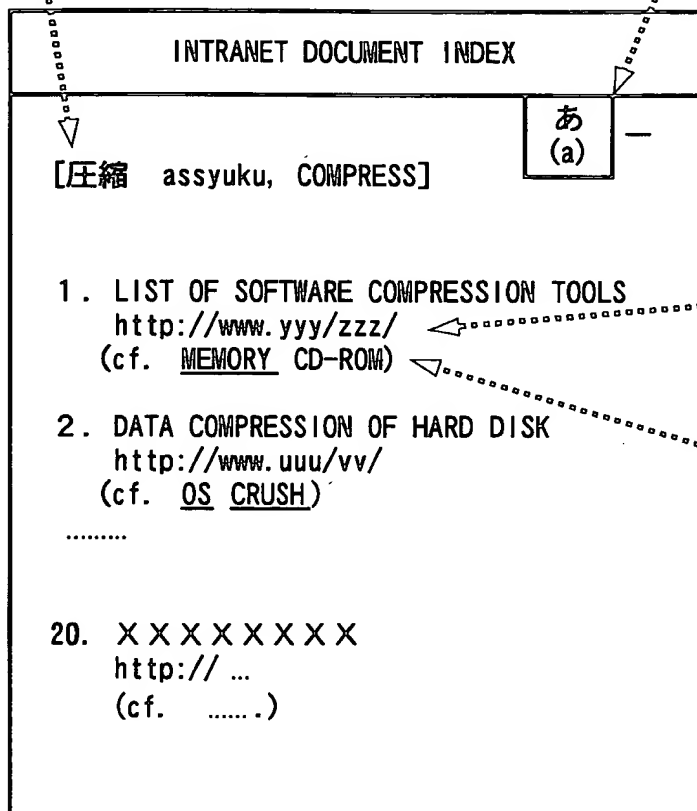


FIG. 25

トップ (toppu) - イベント (ibento)

「イベントカレンダー」

(IBENTO KARENDĀ : EVENT CALENDAR)

MAJOR PAGES ABOUT "イベントカレンダー"

- <http://www.paso.co.jp/event/2000.html> (03/17/1999)
2000 NEN KARENDĀ : CALENDAR OF YEAR 2000
(KEYWORDS: ソフトウェア (software), 展示会 (exhibition))
- <http://www.cal.co.jp/event9907.html> (06/23/1999)
7 GATSU NO MOYOUSHI : EVENT ON JULY
(KEYWORDS: 音楽会 (ongakukai), コンサート (concert))
- <http://www.yohoo.co.jp/event/> (06/23/1999)
イベントリスト (event list)

FIG. 26

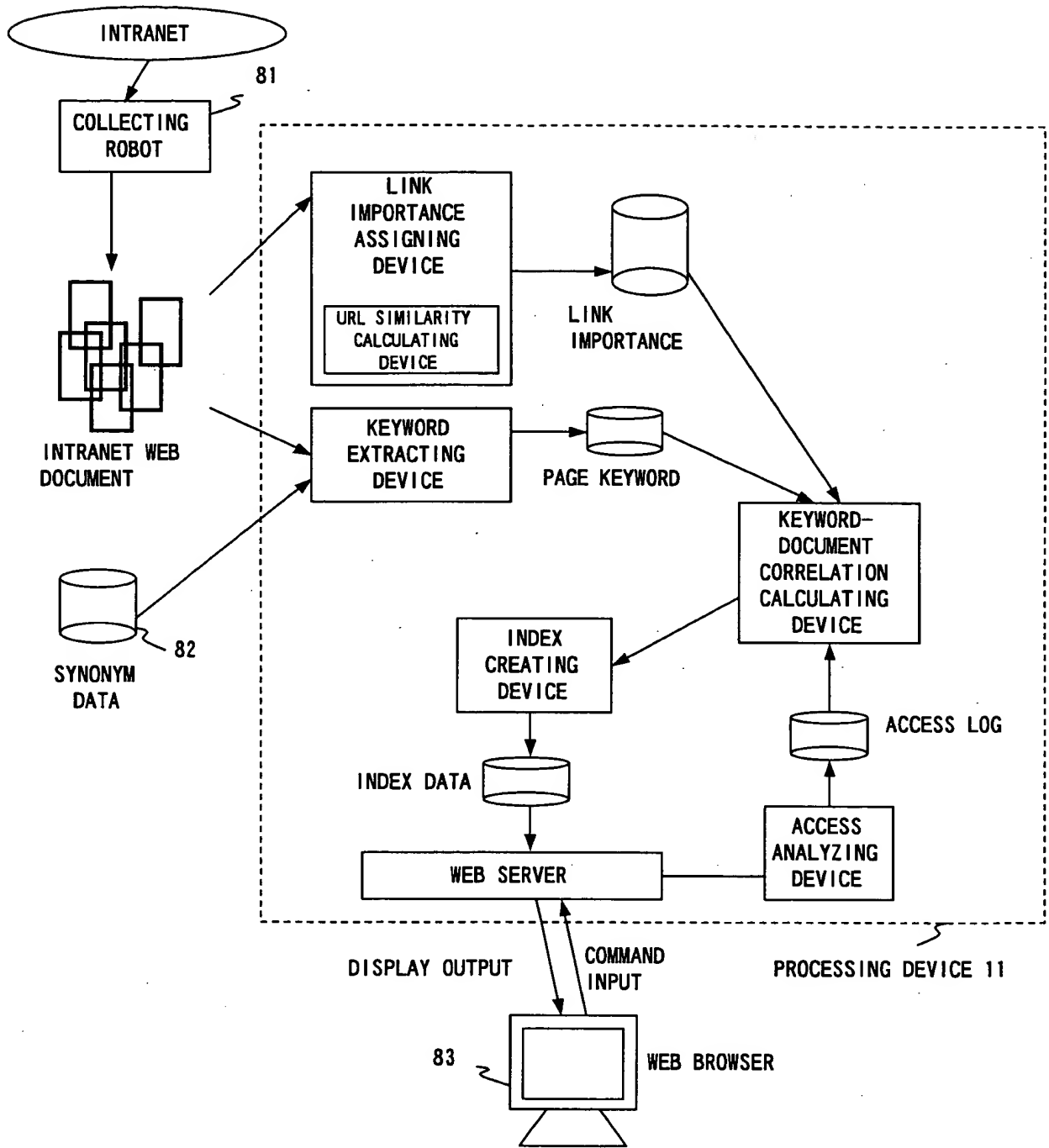


FIG. 27

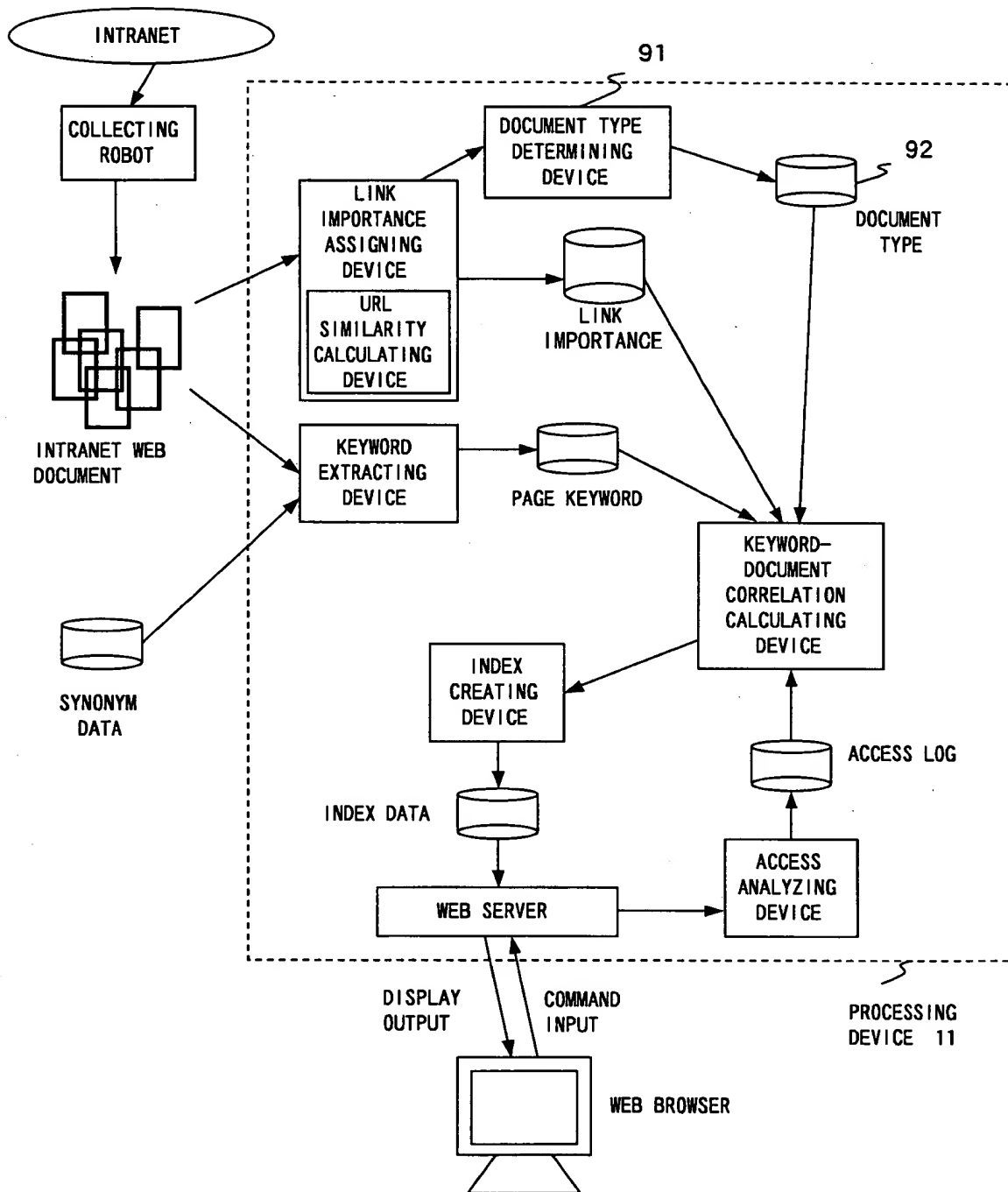


FIG. 28

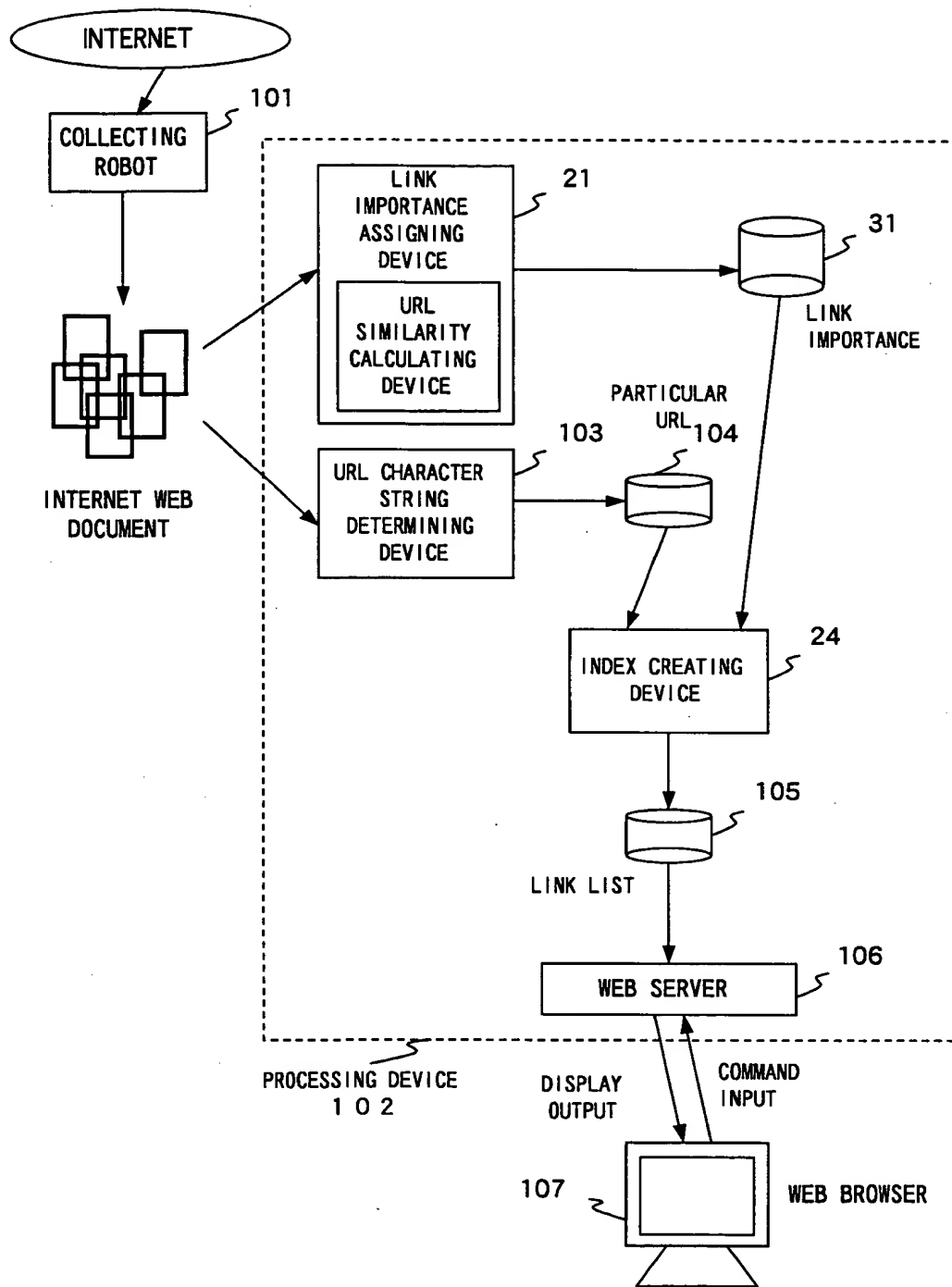


FIG. 29

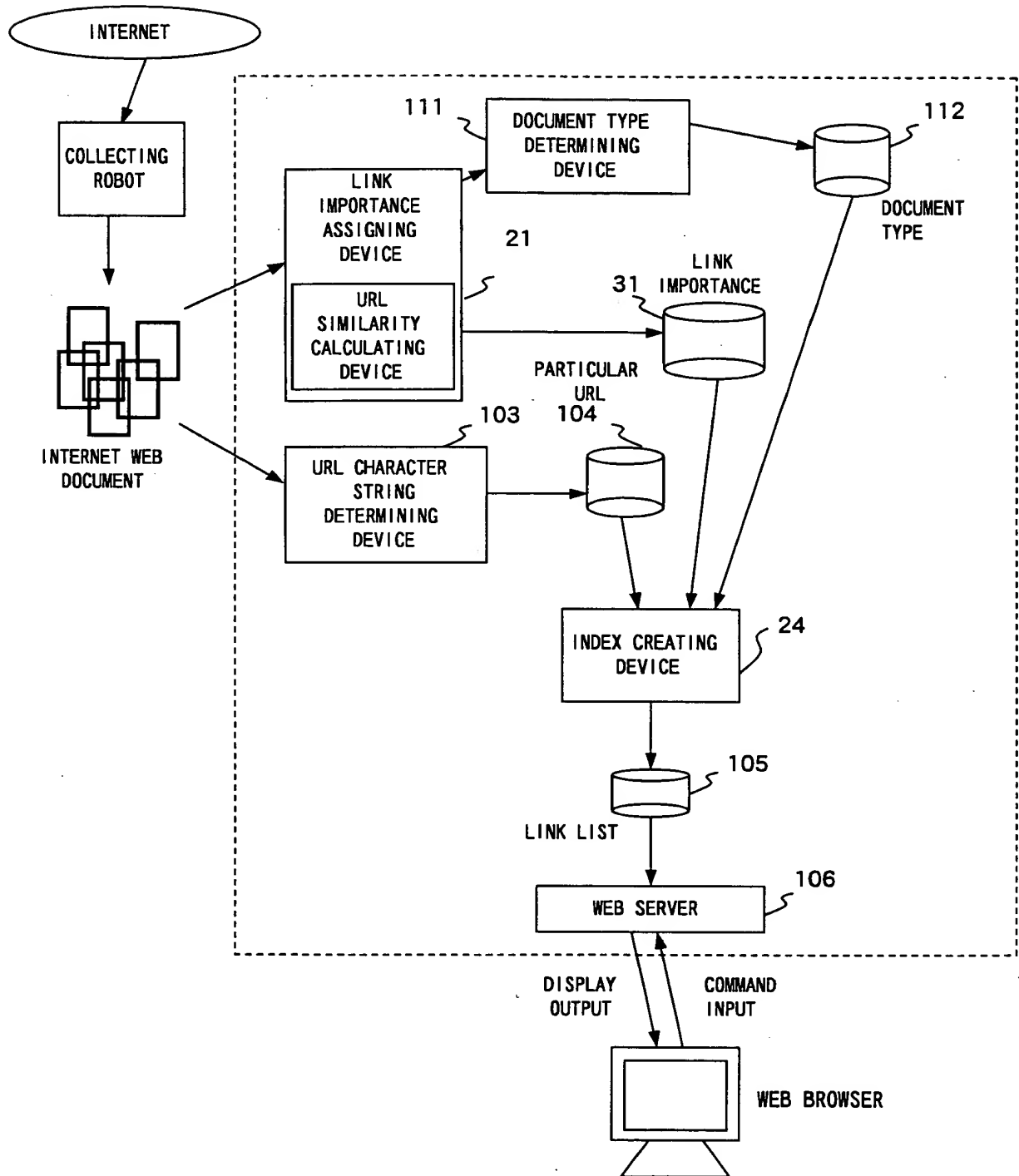


FIG. 30

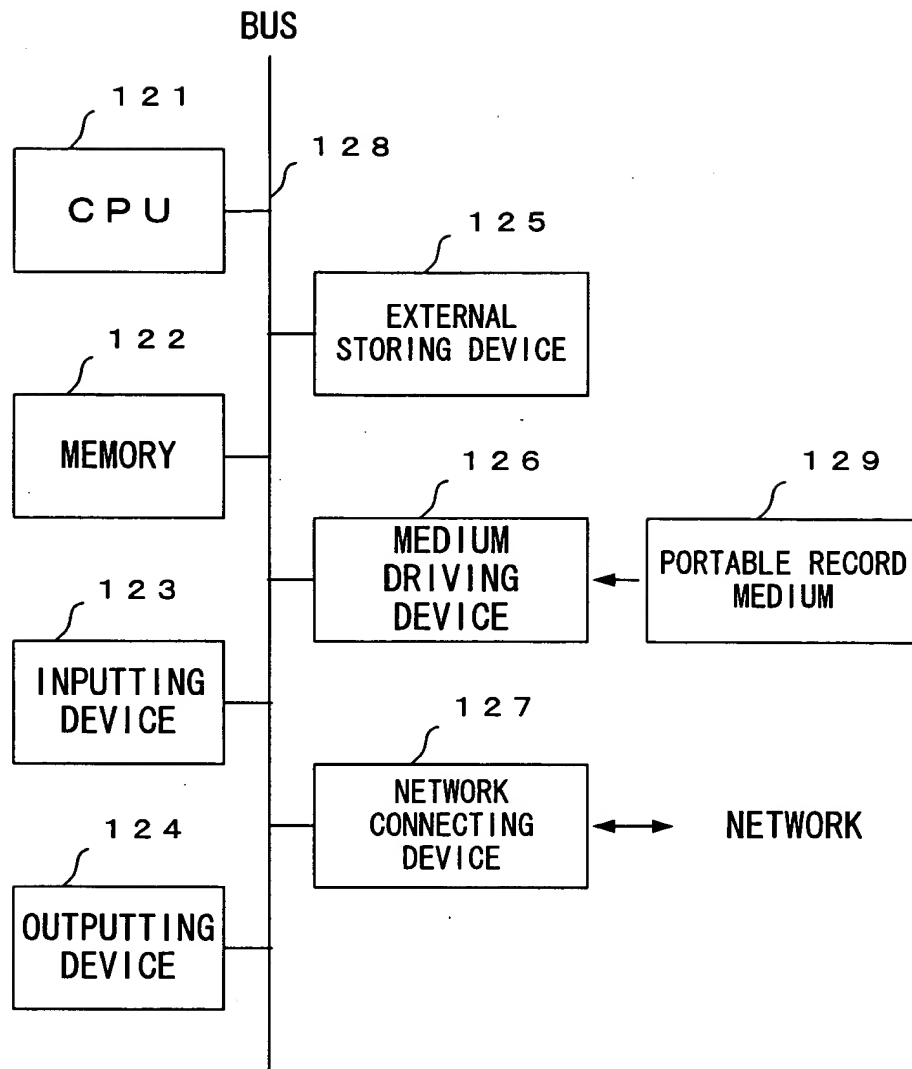


FIG. 31

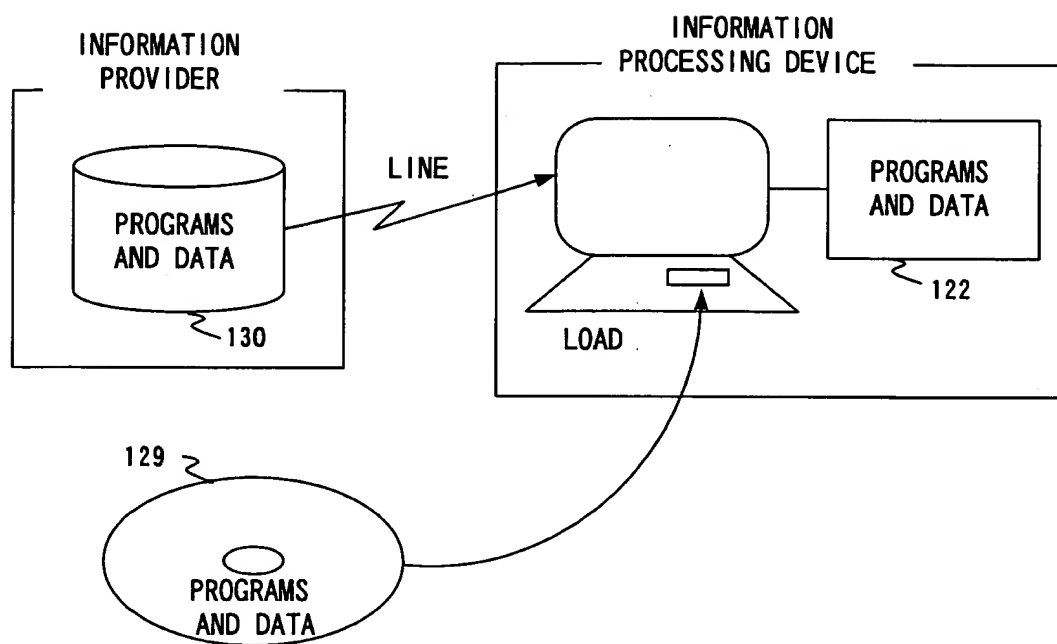


FIG. 32